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| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/023,798 | HA ET AL. | |
| | Examiner | Art Unit | |
| | Matt P Hodges | 2879 | |

-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Request for reconsideration dated 4/2/2004.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ The drawings filed on 21 December 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Allowable Subject Matter

Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation of a cathode ray tube including a panel including a phosphor layer, a funnel connected to the panel, the funnel including a neck having a region for housing an electron gun and a region including a stem being sealed; and the stem having a plurality of stem pins, each stem pin being supported by each stem mound for applying voltage to each electrode of the electron gun, the inside diameter of the stem sealing region of said neck being greater than the electron gun housing region, the diameter of an inner stem pin circle formed by interior stem pins disposed on the inside of said neck being less than an outer stem pin circle formed by exterior stem pins disposed on the outside of said neck, a horizontal length between an outer edge of said stem mound and an interior of said neck being in the range greater than or equal to 1.0 mm and less than or equal to 2.0 mm. The criticality of the range of between 1.0 mm and 2.0mm is stated in paragraph 49 of the specification. (See response to non-final rejection dated 4/2/2004 for further information).

Regarding claims 2-5, claims 2-5 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claim 6, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 6, and specifically comprising the limitation

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of a cathode ray tube including a panel including a phosphor layer, a funnel connected to and tapered from the panel, a neck connected to the funnel and including an electron gun housing region and a stem sealing region, to which a stem including a plurality of stem pins arranged in an annular shape and passing there through for introducing signal voltages from an external circuit being sealed, an outside diameter of the electron gun housing region being in the range from 21.8 to 23.2 and the stem sealing region being in the range greater than the outside diameter of the electron gun housing region and less than or equal to 24.0 mm. The prior art fails to teach or suggest the use of a stem neck in the ranges specified nor is there any indication that the modifications of the prior art would be applicable to a stem neck of the size required.

Regarding claims 7-9, claims 7-9 are allowable for the reasons given in claim 6 because of their dependency status from claim 6.

Regarding claim 10, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 10, and specifically comprising the limitation of a cathode ray tube including a funnel comprising a neck including a region for housing an electron gun and a region to which a stem is sealed; and the stem having a plurality of stem pins, each stem pin being supported by each stem mound for applying voltage to each electrode of the electron gun, the inside diameter of the stem sealing region of the neck being greater than the electron gun housing region, the diameter of an inner stem pin circle formed by interior stem pins disposed on the inside of the neck being less than an outer stem pin circle formed by exterior stem pins disposed on the outside of the neck, a horizontal length between an outer edge of said stem mound and an interior of said neck being in the range greater than or equal to 1.0 mm and less than or equal to 2.0 mm. The criticality of the range of between 1.0 mm and 2.0mm

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is stated in paragraph 49 of the specification. (See response to non-final rejection dated 4/2/2004 for further information).

Regarding claims 11-14, claims 11-14 are allowable for the reasons given in claim 10 because of their dependency status from claim 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt P Hodges whose telephone number is (571) 272-2454. The examiner can normally be reached on 7:30 AM to 4:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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